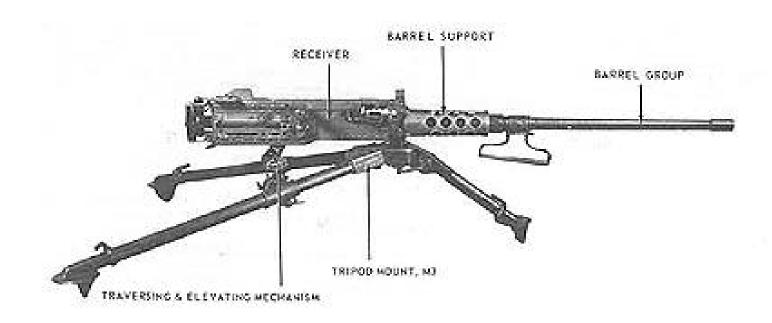
REACH WAYYY OUT -

- Today's .50 Caliber Precision Riflery

This isn't about your father's .50 caliber!!

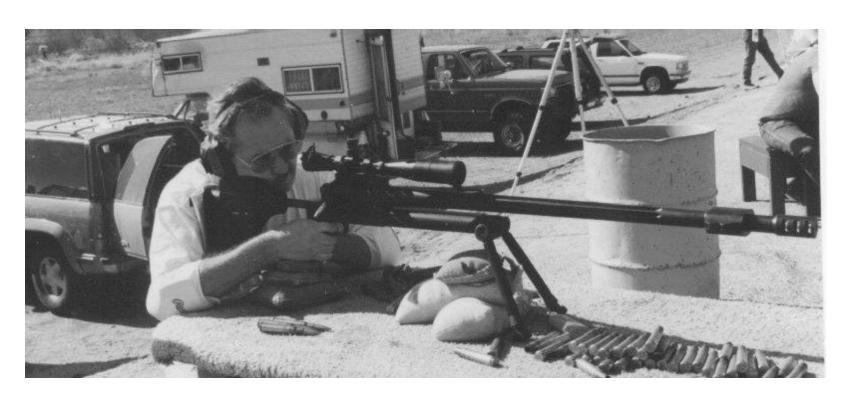




Nor is it about muzzleloading



What we <u>are</u> talking about is long-range (1000 yd), bench-rest, match (competition) shooting utilizing the military's .50 BMG (Browning Machine Gun) cartridge, but in precision (custom) rifles.

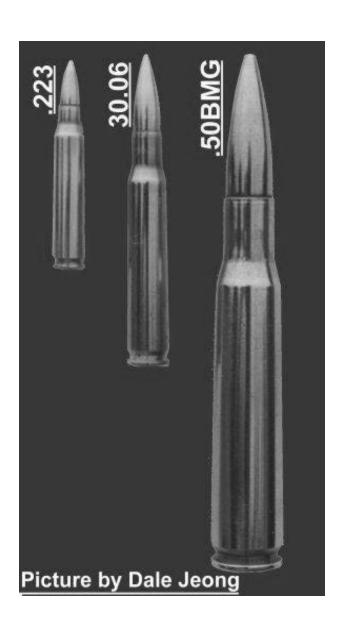




- .50 BMG historically viewed as machine gun, not rifle cartridge
- Limited work as rifle cartridge conducted in Korea & Viet Nam
- Civilian successes
 provided impetus to field

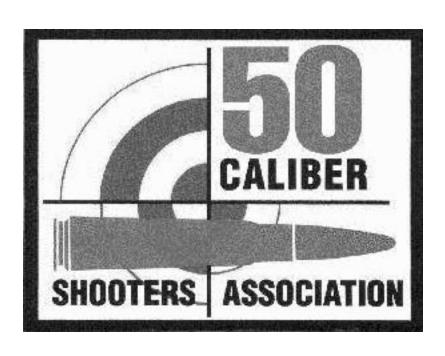
 .50 BMG cartridge as a
 rifle caliber





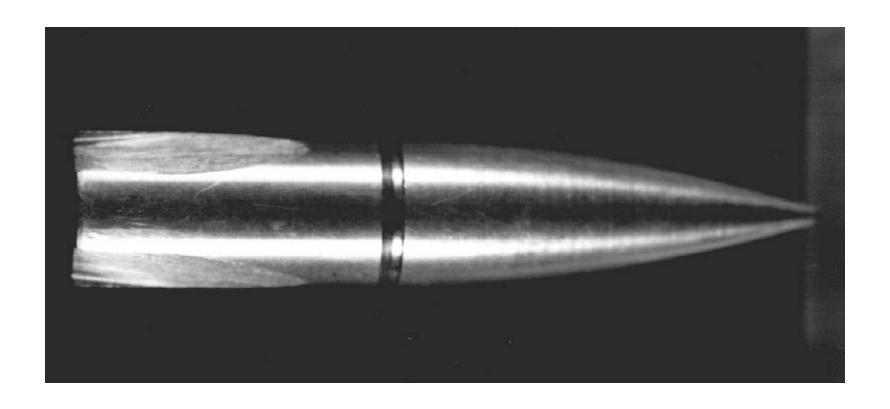
- Civilians viewed caliber as challenge
- Outstanding ballistic potential
- Largest caliber not requiring federal destructive device ("cannon") permits
- An "Extreme Sport"

Fifty Caliber Shooters' Assn.



- International sanctioning body
- Chartered to "Promote the civilian sporting uses of the .50 BMG cartridge"
- Non-profit chartered in Tenn.
- Established in 1985
- 2,300 members in all 50 states
 & 15 foreign countries
- Publishes "Very High Power Magazine" quarterly
- Members: Civilians, Lawyers,
 Doctors, Machinists, Scientists,
 Military, Law Enforcement,
 R&D, etc.

Effective Extended Long-Range Projectile



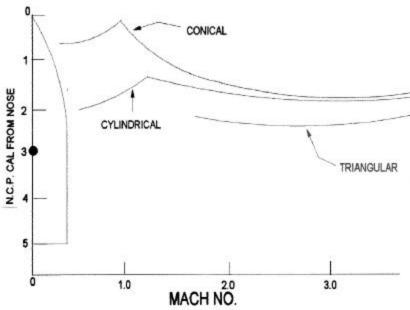


Figure 12. The Normal Force Center of Pressure on Improved Boattails

- Monolithic Solid Construction
- "The only projectile with positive lift, designed to transcend transonic velocities"

EELR Stats:

- 780 grain Solid Brass
- Special Fluted Boat Tail
- Developed by Russ Anderson

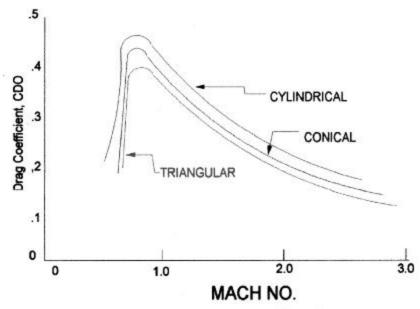


Figure 7. The Zero Yaw Drag of the Improved Boattail

.50 DTC Europe Caliber Cartridge

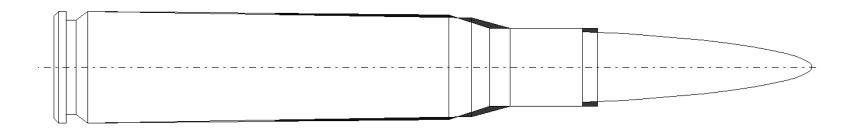
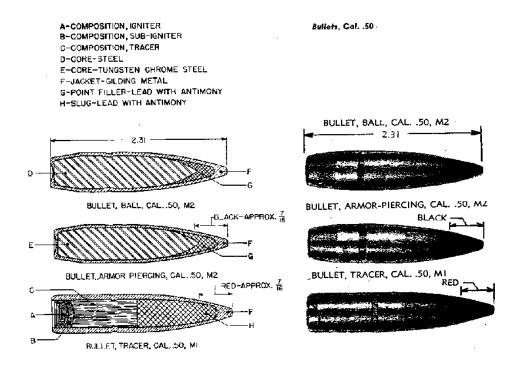


Photo courtesy QuickDESIGN -Hartmut Broemel

.50 DTC Euro Stats:

- Proposed European competition caliber
- Designed for countries prohibiting military caliber firearms

- Accommodates std .50BMG projectiles
- Provides same case volume as 12.7x99
- Formed from BMG cases



- Will chamber in BMG rifles, but not vice versa
- 12.7x96 vs. 12.7x99
- Design by Eric Danis

Kyser Thunderbolt Wildcat Series



Kyser Thunderbolt Stats:

Objective: Explore the full spectrum of capabilities in the BMG case

Conclusion: Potential currently limited by available powders

- BMG cases 99 and 84 mm
- Tested projectile calibers .375, .416, .458, .510, & .700
- Tested six different powders
- Concept by Monte Kyser



Sophisticated "Rail-Gun" Systems



"The proof is in the pudding"

Year	Group	Shooter	State
1986	9.3125 "	E. Williams	MS
1991	8.7500 "	B. Seiler	МТ
1991	7.1875 "	A. Guidi	MA
1991	6.8125 "	D. Chapman	TX
1991	4.2500 "	S. Talbot	NV
1992	4.0340 "	S. Talbot	NV
1995	3.2395 "	C. Taylor	WA
1999	2.6002 "	S. Talbot	NV

FCSA Liaison Program Office































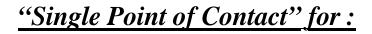








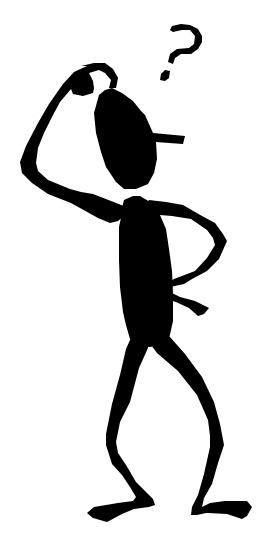




- Military US Army, Navy, Air Force, Marine Corps, Coast Guard
- Law Enforcement Federal, State, Local agencies
- **R&D** Defense & Sporting Firearms

Bottom Line?

(Or "What's all this mean to me?")



Civilian .50 caliber sport is:

- On-going work
- Thinking "Out of the Box"
- In a number of fields, simultaneously
- Funded by sources other than corporate R&D departments or taxpayer's money
- Made available to defense & lawenforcement communities
- At little or no cost
- To improve the performance, safety, & chances of success for military & police users of .50 BMG caliber tactical rifles
- Resulting in more civilian, police,
 & military customers = more \$\$\$\$

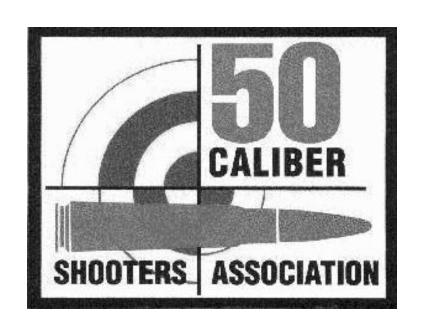
For further information, zero in on our web sites:

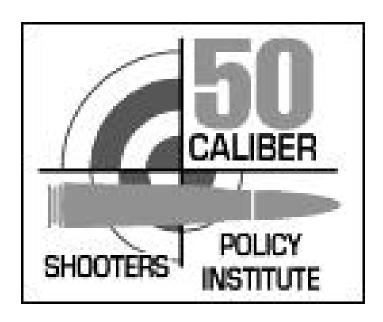


www.FCSA.org

www.50cal-policy.org

This concludes our presentation.





Thank you for your attention.